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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	. ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/648,381	08/27/2003	Takaki Tsutsui	02410340AA	5364	
30743 759	00/05/2001		EXAM	EXAMINER	
WHITHAM, C	URTIS & CHRISTOFF HILLS ROAD	ERSON, P.C.	MAYO III, W	VILLIAM H	
SUITE 340		*	ART UNIT	PAPER NUMBER	
RESTON, VA	20190	• 0	2831	, Po	
			DATE MAILED: 06/03/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)	- AK
Office Action Summer	10/648,381	TSUTSUI ET AL.	. .
Office Action Summary	Examin r	Art Unit	
×	William H. Mayo III	2831	
The MAILING DATE of this c mmunicati n app Period for Reply	pears n th cover sheet with the	ne correspondence addre)ss
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS for some state of the second state o	e timely filed days will be considered timely rom the mailing date of this comm	unication.
Status			*
1) Responsive to communication(s) filed on 09 A	pril 2004.		
	action is non-final.		
3) Since this application is in condition for allowar		prosecution as to the mo	erits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1-13</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdray		•	
5) Claim(s) is/are allowed.	The month consideration.		
6)⊠ Claim(s) <u>1-13</u> is/are rejected.			
7)☐ Claim(s) is/are objected to.		()	
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers	,		*
9)☐ The specification is objected to by the Examine	· · · · · · · · · · · · · · · · · · ·	•	* . *
10)⊠ The drawing(s) filed on <u>09 April 2004</u> is/are: a)		a by the Eveniner	
Applicant may not request that any objection to the	drawing(s) he held in abeyance	See 37 CED 1 85(a)	* .
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is	objected to See 37 CER 1	121(4)
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	ce Action or form PTO-1	. 12 1(u). 52
Priority under 35 U.S.C. § 119			,
-		1	•
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119	(a)-(d) or (f).	
		. ,	
country documents	ty documents beyon been received in Applica	ation No	
 Copies of the certified copies of the priori application from the International Bureau 	(PCT Rule 17 2/5))	ved in this National Sta	је
* See the attached detailed Office action for a list of	of the certified conies not receive	ved.	
	and sermine oppies not recen	rou.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summa	ry (PTO-413)	·
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail	Date	
Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-152))
S. Palent and Trademark Office			

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DETAILED ACTION

Drawings

- 1. The drawings were received on April 9, 2004. These drawings are not approved because the Figure 2 lacks the proper cross-hatching which indicates the type of materials, which may be in an invention. Specifically, the cross hatching to indicate the ferrite material is improper. The applicant should refer to MPEP Section 608.02 for the proper cross-hatching of materials. Correction is required.
- 2. Applicant is required to submit a proposed drawing correction in reply to this

 Office action. However, formal correction of the noted defect may be deferred until after
 the examiner has considered the proposed drawing correction. Failure to timely submit
 the proposed drawing correction will result in the abandonment of the application.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-3, 6-10, and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Manly (Pat Num 4,371,742) in view of McFadden et al (Pub Num 2004/0020674). Manly discloses an EMI suppressing cable (Figs 1-3) having excellent EMI absorption characteristics (Col 2, lines 15-20). Specifically, with respect to claim 1, Manly discloses a cable (Fig 1) comprising a insulated signal wire (12 & 14), a shielding layer (16) formed on the outer surface of the insulated signal wire (12 & 14) and a magnetic material layer (18) formed on an outer surface of the shielding layer (16) and having a ferrite resin layer (i.e. iron powder mixed with polyurethane binder, Col 5, lines 45-50) and a film (i.e. polyester, Col 5, lines 58-62), wherein the magnetic material (18) may be wounded on the shielding layer (16, Col 6, lines 66-68). With respect to claim 2, Manly discloses that the magnetic material (18), which is spirally wound (i.e. helically wounded) around an axis of the insulated signal wire (12 & 14, Col 6, lines 66-68). With respect to claim 3, Manly discloses that the magnetic material (18), which is wound (i.e. helically wounded) around an axis of the insulated signal wire (12 & 14, Col 7, lines 21-25). With respect to claim 6, Manly discloses that the magnetic material layer (18) is a tape layer (i.e. the layer is 0.009 inches, Col 5, lines 58-62). With respect to claim 7, Manly discloses that the magnetic material layer (18) may have a single sheet shape (Fig 5). With respect to claim 8, Manly discloses a cable (Fig 1) comprising a insulated

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signal wire (12 & 14), and a magnetic material layer (18) formed on an outer surface of the shielding layer (16) and having a ferrite resin layer (i.e. iron powder mixed with polyurethane binder, Col 5, lines 45-50) and a film (i.e. polyester, Col 5, lines 58-62), wherein the magnetic material (18) may be wounded on the shielding layer of the coaxial cable (16, Col 6, lines 66-68). With respect to claim 9, Manly discloses that the magnetic material (18), which is spirally wound (i.e. helically wounded) around an axis of the insulated signal wire (12 & 14, Col 6, lines 66-68). With respect to claim 10, Manly discloses that the magnetic material (18), which is wound (i.e. helically wounded) around an axis of the insulated signal wire (12 & 14, Col 7, lines 21-25). With respect to claim 12, Manly discloses that the magnetic material layer (18) is a tape layer (i.e. the layer is 0.009 inches, Col 5, lines 58-62). With respect to claim 13, Manly discloses that the magnetic material layer (Fig 5).

However, Manly doesn't necessarily disclose the ferrite layer being printed on one face of the film (claim 1), nor the magnetic material having a ferrite resin layer formed on one face of the film to form a two-layer structure (claim 8).

McFadden teaches an EMI suppressing shield (Figs 1-10) that incorporates both reflective and absorptive properties to improve shielding effectiveness over a range of frequencies (paragraph 13), that may be utilizes on elongated elements, such as a cable (Figs 5a-5e, paragraph 48). Specifically, with respect to claims 1 & 8, McFadden teaches an EMI suppressing shield (Fig 1a) that comprises magnetic material having a film layer (100) and a ferrite layer (105), wherein the ferrite layer (105) may be printed

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onto the film layer (100, Page 2, paragraph 15), thereby forming a two layer structure (Fig 1a).

With respect to claims 1 & 8, it would have been obvious to one having ordinary skill in the art of cables at the time the invention was made to modify the magnetic material of Manly to comprise the magnetic material configuration as taught by McFadden because McFadden teaches that such a configuration incorporates both reflective and absorptive properties to improve shielding effectiveness over a range of frequencies (paragraph 13) and may be utilized on elongated elements, such as a cables (Figs 5a-5e, paragraph 48).

6. Claims 4 & 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Manly (Pat Num 4,371,742) in view of McFadden et al (Pub Num 2004/0020674, herein referred to as modified Manly), as applied to claims 1 & 8, further in view of Ikeda et al (JP Pat Num 11-185542, herein referred to as Ikeda). Manly discloses an EMI suppressing cable (Figs 1-3) having excellent EMI absorption characteristics (Col 2, lines 15-20), as disclosed above with reference to claim 1 above.

However, modified Manly doesn't necessarily disclose the film being a metallic film (claims 4 & 11).

Ikeda teaches a EMI suppressing cable having a high shielding effect over a wide range, that is easy the handle, and can keep a fine view without the needing to increase the diameter of the cable so much, by shielding radiation noise (see solution). Specifically, Ikeda teaches a cable (Fig 1) comprising a thin layer of magnetic permeability material (6, i.e. ferrite resin material), which is laminated to a metallic foil

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layer (5) for the purpose of providing a high shielding effect wherein the magnetic permeability material absorbs the radiation noise (see solution).

With respect to claim 4, it would have been obvious to one having ordinary skill in the art of cables at the time the invention was made to modify the magnetic resin layer of modified Manly to comprise the magnetic resin layer configuration as taught by Ikeda because Ikeda teaches that such a configuration provides a cable having a high shielding effect over a wide range, that is easy the handle, and can keep a fine view without the needing to increase the diameter of the cable so much, by shielding radiation noise (see solution).

Response to Arguments

7. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Communication

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Mayo III whose telephone number is (571)-272-1978. The examiner can normally be reached on M-F 8:30am-6:00 pm (alternate Fridays off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (571) 272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William H. Mayo III Primary Examiner Art Unit 2831

WHM III May 28, 2004